

Hüdaverdi Cakir

IT Specialist (Freelancer)

Software architect, developer and cloud specialist with more than 25 years of IT experience. Build software projects from conception to implementation, including operations. Support existing teams or can ramp up, coach, or lead new teams.

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Personal Data

Focus	Architecture and development of object-oriented systems in Java and cloud-native environments, coaching and technical project management
Education	Specialised computer scientist (Fachinformatik) with focus on software development
Languages	German, native English, fluent Turkish, native
Year of birth	1976
Nationality	German
IT experience	since 1997

Experience

Industries	<ul style="list-style-type: none">• Automotive (<i>BMW, Continental</i>)• Video Games (<i>Crytek, Ravensburg</i>)• eCommerce (<i>TicketOnline</i>)• Sporting Goods (<i>Puma</i>)• Foods and Luxury Foods (<i>Bahlsen, BurgerKing</i>)• Financial Services (<i>Siemens Financial Services</i>)• Energy Industry (<i>E.ON Sales&Trading</i>)• Media (<i>ProSieben, GEMA</i>)• Telecommunications (<i>o2, Telefónica</i>)• Insurance (<i>IBM, IGS Schweiz</i>)
Methods and Technologies	<ul style="list-style-type: none">• Java projects since 1998• Development of web clients and rich-client applications• Development of distributed, horizontal scalable systems• Cloud-native and containerised environments (AWS, GCP, Azure, Kubernetes, Docker)• Relational database systems and NoSQL databases• Design patterns and modelling with UML• Agile methodologies, Scrum, Kanban

Project History

I have been working as a developer and consultant in various software projects since 1997. Starting on systems such as AS/400, Sun Solaris, up to today's Linux systems with a focus on Java, I have worked in a wide range of projects and different industries.

My activities included:

- Software development
- Architecture concepts and design
- Coaching, ramping up and leading teams
- Training on technologies and agile processes

Today, I can cover the full end-to-end life-cycle of a software product, from design and implementation to rollout and operations of individual software projects, preferably in teams with a product-driven approach that feel comfortable in cloud-native environments and technologies.

My expertise includes cloud infrastructures such as AWS, Azure or Google Compute and the as-code approach, as well as container technologies such as Docker and Kubernetes.

Projects of last 10 years

Project	Data Science Platform (<i>ContiTech</i>)
Role	Cloud Architect, Project management
Responsibilities	Implementation of a new infrastructure on Azure and Kubernetes (AKS). Integration into the customer's internal company network infrastructure. Design and implementation of a Data Lake with authorization concept to make data from production centrally available for data science and analytics. Implementation of an ETL pipeline to prepare data for specific use cases. Implementation of tools and APIs to make it easier for data scientists to access data and manage applications on Kubernetes.
Period	since January 2022
Skills	Java, Python, Azure, Docker, Kubernetes, MongoDB, Scrum, Prometheus, Grafana, ELK
Project	Migration Azure to GCP (<i>Bahlsen</i>)
Role	Cloud Architect
Responsibilities	Migration of an existing infrastructure and application landscape from Azure to GCP. Consulting and support in the planning and implementation of the network setup and project infrastructure on GCP. Setup and configuration of a Kubernetes cluster (using GKE). Transfer of existing applications to Kubernetes. Training and coaching in container technologies.
Period	September 2021 – November 2021
Skills	Azure, Google Compute Platform (GCP), Docker, Kubernetes

Project **Demand Forecast (*Continental*)**
Role Cloud Architect
Responsibilities Design and implementation of a highly scalable infrastructure on AWS and Kubernetes (EKS) to automatically train, deploy and operate machine learning (ML) models.
Implementation of tools and API services to manage and configure the workflows running on Airflow.
Integration of external data sources (SAP Hana and S3), which serve both as a source for training and validating the models and to provide the forecast data.

Period September 2019 – December 2021
Skills Java, Python, Docker, Kubernetes, AWS, Airflow, SAP HANA, ELK

Project **Telemetry Data (*Continental*)**
Role Software Architect
Responsibilities Implementation of a data pipeline for processing and persisting high-frequency telemetry data from vehicles.
Various data sources (AMQP, S3, FTP) had to be connected. The heterogeneous data structures, formats, resolution and frequencies are made available both raw and homogenized and cleansed in a central database and S3 buckets for various use cases (reporting, data science, analytics, R&D) for easy and secure access and processing.

Period January 2018 – December 2019
Skills Java, Python, Cassandra, Spark, Kafka, PostgreSQL, AMQP, Kubernetes, AWS

Project **Operational Reporting (*Solifi*)**
Role Software Architect
Responsibilities Implementation of the Angular frontend and the Java backend for the preparation and visualization of interactive reports using BIRT (Business Intelligence and Reporting Tools).
Integration of an existing legacy, host-based backend for the administration of leasing contracts.

Period September 2016 – December 2017
Skills Java, Angular, EJB3, Apache Camel, JMS, WildFly, BIRT, AWS, Git, TeamCity

Project **POS System on Android (*eh-2.de*)**
Role Software Developer
Responsibilities Development of the Android app, optimized for tablets, with a focus on UI, the business layer and the connection to the existing cloud-based order management platform.
Period April 2014 – June 2014 (then until March 2015 at 20%)
Skills Android, Dagger, Butter Knife, OrmLite, SQLite, Git, Scrum

Project **GFACE Social Gaming Platform (*Crytek, gface.com*)**
GFACE is a SaaS platform for free-to-play online games.
It provides services (via REST and WebSockets) for video game developers that support the distribution and operation of online games. In particular, this includes a payment backend with global and local payment systems, account management, tracking and connection to BI, achievement system, leaderboards and tools for CM, PR, localization and customer service.
GFACE went online in October 2013 with the first title Warface (warface.com).
Role Technical Director
Responsibilities Ramp-up and direction of the 18-strong Scrum team (developers, designers, QA, operations).
Contract negotiations with and sourcing of service providers (data center, CDN, payment provider) and publishers.
Coordination of cross-cutting topics and workshops with game developer studios.
Design of the overall architecture of the SaaS platform, which is horizontally scalable and highly available.
Proactive development of the middleware and backend.
Period August 2009 – April 2014
Skills Java, Spring, Hibernate, Infinispan, HornetQ, Elastic Search, MySQL, Redis, MongoDB, GlusterFS, Jetty, Scrum

Customer recommendations

All recommendations have been confirmed by GULP:

<https://www.gulp.de/gulp2/g/spezialisten/profil/cakir?tab=references>

Project Order Management System, EAI developer, 10/05 - 10/06

Recommendation by Senior IS Manager Central European Division, BurgerKing, from Nov 7th, 2006
"Der Consultant hat das Projekt sowohl in der Entwicklung als auch in der Koordination der Schnittstellen zu diversen Fremdsystemen bedeutend unterstützt. Insbesondere hat er eine sehr gut strukturierte und stabile Infrastruktur für das EAI geschaffen. Er ist ein sehr motivierter Consultant mit fundiertem Wissen über objektorientierte Softwareentwicklung und verteilte Systeme. Wegen dieser überaus angenehmen und fruchtbaren Zusammenarbeit würden wir den Consultant jederzeit wieder einsetzen und können ihn für die Umsetzung anspruchsvoller Aufgaben nur empfehlen."

Project CMD, 07/04 - 09/05

Recommendation by SPV AG from Nov 6th, 2006
"Der Berater ist in einer sehr kritischen Projektphase in das bestehende Team eingetreten. Seine Aufgaben lagen darin, das Team im Entwicklungsprozess zu unterstützen und zu coachen, einen Prozess für Versionsmanagement, Build und Deployment zu etablieren sowie das System zu stabilisieren. Diese Anforderungen hat er, auch unter hoher Belastung, in ausgezeichneter Weise umgesetzt. Sein breites Know-how, sein hohes Engagement und seine stark ausgeprägte Sozialkompetenz zeichnen ihn als einen sehr angenehmen Mitarbeiter und jederzeit empfehlenswerten Berater aus."

Project Risk Management System (EON), Java/Jini developer, 08/01 - 01/04

Recommendation by project manager of IT-Services (1,200 employees) from Apr 5th, 2004
"Der Consultant besitzt enormes Wissen über die Entwicklung von verteilten Systemen im J2EE-Umfeld. Mit seinen fundierten Kenntnissen in den Bereichen OOAD/OOP und seinem großen Engagement hat er das Projekt sehr erfolgreich unterstützt. Die Zusammenarbeit war äußerst angenehm. Ich kann den Consultant auf jeden Fall weiterempfehlen und würde ihn bei Bedarf selbst wieder einsetzen."

Project Archiving-System, Content-Management, Java software development, 2000 – 2001

Recommendation by project manager of a software company with 60 employees from Jun 15th, 2001
"Der Consultant verfügt über profunde Kenntnisse in objektorientiertem Design und Programmierung mit Java. Neben seiner fachlichen Kompetenz, zeichnen ihn vor allem sein starkes Engagement und seine Teamfähigkeit aus. Ich kann den Consultant jederzeit für ein Projekt weiterempfehlen und würde ihn bei Bedarf selbst auch wieder einsetzen."